IN THE CLAIMS

- (Original) A code division multiple access (CDMA) integrated circuit, comprising:
 a demodulator configured to correlate an input data with a plurality of codes; and
 a test data pattern generator configured to spread an input test data with at least one of
 the plurality of codes to form a spread test data, and to provide the spread test data to the
 demodulator.
- 2. (Original) The integrated circuit of claim 1 further comprising a multiplexer configured to multiplex the input data and the spread test data to the demodulator.
- 3. (Original) The integrated circuit of claim 1 wherein at least one of the plurality of codes comprises a scrambling code and a spreading code.
- 4. (Original) The integrated circuit of claim 3 wherein the scrambling code comprises a pseudo-random noise (PN) code and the spreading code comprises a Walsh code.
- 5. (Original) The integrated circuit of claim 3 wherein the test pattern generator further comprises a plurality of AND gates configured to gate off the scrambling code.
- 6. (Original) The integrated circuit of claim 3 wherein the test pattern generator further comprises a plurality of AND gates configured to gate off the spreading code.
- 7. (Original) The integrated circuit of claim 1 wherein the test data pattern generator further comprises a combiner configured to combine a plurality of scrambling codes and a plurality of spreading codes to form the plurality of codes.
- 8. (Original) The integrated circuit of claim 7 wherein the combiner comprises a logical XOR circuit.
- 9. (Original) The integrated circuit of claim 7 wherein the test data pattern generator further comprises a multiplexer configured to select the scrambling code from a plurality of

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scrambling codes, select the spreading code from a plurality of spreading codes, and provide the scrambling code and spreading code to the combiner.

- 10. (Original) The integrated circuit of claim 9 wherein the demodulator further comprises a rake receiver having a plurality of fingers, one of the fingers being configured to receive the scrambling code and the spreading code.
- 11. (Original) The integrated circuit of claim 1 wherein the test data pattern generator further comprises a plurality of spreaders configured to spread the input test data with the plurality of codes to form a plurality of spread test data
- 12. (Original) The integrated circuit of claim 11 wherein the test data pattern generator further comprises a plurality of AND gates configured to gate off at least one spread test data.
- 13. (Original) A code division multiple access (CDMA) integrated circuit, comprising: means to correlate an input data with a plurality of codes; and means to spread an input test data with at least one of the plurality of codes to form a spread test data, and to provide the spread test data as the input data.
- 14. (Original) The integrated circuit of claim 13 further comprising means to multiplex the input data and the spread test data.
- 15. (Original) The integrated circuit of claim 13 wherein at least one of the plurality of codes comprises a scrambling code and a spreading code.
- 16. (Original) The integrated circuit of claim 15 wherein the scrambling code comprises a pseudo-random noise (PN) code and the spreading code comprises a Walsh code.
- 17. (Original) The integrated circuit of claim 15 further comprises means to gate off the scrambling code and means to gate off the spreading code.
- 18. (Original) The integrated circuit of claim 13 further comprises means to combine a

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plurality of scrambling codes and a plurality of spreading codes to form the plurality of codes.

- 19. (Original) The integrated circuit of claim 18 further comprises means to select the scrambling code from a plurality of scrambling codes and to select the spreading code from a plurality of spreading codes.
- 20. (Original) A method of testing a code division multiple access (CDMA) integrated circuit, comprising the steps of:

correlating an input data with a plurality of codes within a demodulator; and spreading an input test data with at least one of the plurality of codes to form a spread test data, and providing the spread test data to the demodulator.

- 21. (Original) The method of claim 20 further comprising the step of multiplexing the input data and the spread test data.
- 22. (Original) The method of claim 20 wherein at least one of the plurality of codes comprises a scrambling code and a spreading code.
- 23. (Original) The method of claim 20 further comprises the step of combining a plurality of scrambling codes and a plurality of spreading codes to form the plurality of codes.

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